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(71)Applicant : SUMITOMO CHEM CO LTD

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(72)Inventor : MITSUTA MASARU  
 KOMAKI RYOHEI  
 ANDO YASUMITSU  
 HIROHARA HIDEO

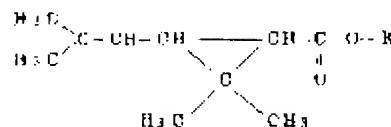
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(54) BIOCHEMICAL PRODUCTION OF OPTICALLY ACTIVE CHRYSANTHEMUM-MONOCARBOXYLIC ACID

(57)Abstract:

PURPOSE: An esterase originating from a microorganism such as *Candida* or *Penicillium* is allowed to act on ( $\pm$ )-chrysanthemum-monocarboxylic acid to enable optical resolution into optically active chrysanthemum monocarboxylic acid and the antipode ester with industrial advantage.

CONSTITUTION: An esterase produced by a microorganism is allowed to act on ( $\pm$ )-chrysanthemum-monocarboxylic acid ester. The esterase is produced by a microorganism in *Candida*, *Penicillium*, *Rhizopus*, *Trichoderma*, *Micrococcus*, *Enterobacter*, *Pediococcus*, *Chromobacterium*, *Mycobacterium*, *Brevibacterium* or *Streptomyces* and has an ability to effect asymmetric hydrolysis of ( $\pm$ )-chrysanthemum-monocarboxylic ester. After completion of the reaction, the product is collected by solvent extraction, column chromatography or the like.



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